

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	1	"6435676".pn. and (memory same (nozzle or orifice or eject\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:20
L9	1	"6435676".pn. and (memory same (nozzle or orifice or eject\$3 or orifice or orifice))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:21
L10	2	"6435676".pn. and ((memory or circuit\$3) same (nozzle or orifice or eject\$3 ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:26
L11	8	"6517184"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:28
L12	2	"20010007458"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:31
L13	2	"6719391".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:31
S2	34	("6003980" "6089693" "6352331" "6378976" "6447091" "6517184" "6517183" "6585346" "6652064" "6565179" "20020085057" "20030001915" "20030020777" "20020027575" "20030117455" "20030122886" "20030137549" "20030151167" "20030160838").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/19 08:01

## EAST Search History

S3	7	"347"/\$3 and memory same nozzle\$1 with (missing or malfunction\$3 or inactive) same (status or location)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/22 14:37
S4	1	"347"/\$3 and memory same nozzle\$1 with (missing or malfunction\$3 or inactive) with location same (status or location)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 09:15
S5	305	"347"/\$3 and memory with firmware	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 09:48
S6	55	"347"/\$3 and memory with firmware with read\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:08
S7	28	"347"/\$3 and memory with firmware with read\$3 and format\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:00
S8	5	"347"/\$3 and memory with firmware with read\$3 same format\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 09:53
S9	24	"347"/\$3 and memory with firmware with read\$3 and (format or formatting or forming or formats or formatted)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:01
S10	7	("6003980" "6089693" "6352331" "6378976" "6447091" "6517184" "6517183" "6585346" "6652064" "6565179" "20020085057" "20030001915" "20030020777" "20020027575" "20030117455" "20030122886" "20030137549" "20030151167" "20030160838").pn. and firmware	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:04

## EAST Search History

S11	3	"347"/\$3 and memory with firmware with read\$3 with printer with print\$head\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:17
S12	37052	"347"/\$3 and printer with firmware with read\$3 memory with (print\$head\$1 or head\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:17
S13	37052	"347"/\$3 and printer with firm\$ware with read\$3 memory with (print\$head\$1 or head\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:17
S14	5	"347"/\$3 and printer with firm\$ware with read\$3 with memory with (print\$head\$1 or head\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:19
S15	19	"347"/\$3 and printer with firm\$ware with memory with (print\$head\$1 or head\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:19
S16	5	S3 and algorithm\$1 and memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:26
S17	24	"347"/\$3 and nozzle\$1 with data with (format or formatting or formats or forming or formatted or formatted) with print	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:35
S18	659	"347"/\$3 and data with (format or formatting or formats or forming or formatted or formatted) with print	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:36

## EAST Search History

S19	12	"347"/\$3 and data near3 (format or formatting or formats or forming or formatted or formated) near3 print near2 job	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:36
S20	13	"347"/\$3 and data near3 (format or formatting or formats or forming or formatted or formated) near3 print near2 job\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:37
S21	2	(nozzle\$1 near4 data) with (format or formats or formatting or forming) near (image or print near1 job)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:53
S22	7	(nozzle\$1 near5 (data or information)) with (format or formats or formatting or forming or change or changes or changing or altering or alter or alters) near (image or print near1 job)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:56
S23	1	"347"/\$3 and memory same firmware same formatter same shingling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 11:01
S24	1	"347"/\$3 and memory same firmware same format\$4 same shingling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 11:01
S25	1	"347"/\$3 and memory same firm\$ware same format\$4 same shingl\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 11:02
S26	1	"347"/\$3 and memory same format\$4 same shingl\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 11:04

## EAST Search History

S27	4	"347"/\$3 and memory same (format\$4 or alter\$3 or chang\$3) same shingl\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 11:05
S28	16	"347"/\$3 and (format or formats or formatting or formatted or forming or formed) same shingl\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 11:06
S29	0	("6003980" "6089693" "6352331" "6378976" "6447091" "6517184" "6517183" "6585346" "6652064" "6565179" "20020085057" "20030001915" "20030020777" "20020027575" "20030117455" "20030122886" "20030137549" "20030151167" "20030160838").pn. and automated	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:41
S30	1	"347"/\$3 and automated with detection same location with (missing or malfunctioning or malfunction\$2 or inoperable or inactive) with nozzle\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:54
S31	1	"347"/\$3 and automated same location with (missing or malfunctioning or malfunction\$2 or inoperable or inactive) with nozzle\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:42
S32	49	"347"/\$3 and automated with detection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:56
S33	1	"347"/\$3 and automated with detection with (stor\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:56
S34	1	"347"/\$3 and automated with detection with (stor\$3 or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:56

## EAST Search History

S35	2	"347"/\$3 and automated with detection and nozzle\$1 with detect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/01 11:56
S36	3	"347"/\$3 and automated with detect\$3 and nozzle\$1 with detect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:57
S37	2935	347/19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 10:30
S38	4	("6517184" "6719391").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 10:37
S39	2	"20050225588"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 10:37
S40	14	("6003980" "6089693" "6352331" "6378976" "6447091" "6517184" "6517183" "6585346" "6652064" "6565179" "20020085057" "20030001915" "20030020777" "20020027575" "20030117455" "20030122886" "20030137549" "20030151167" "20030160838").pn. and memory same (cartridge or housing or chamber or nozzle or orifice or ejector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 14:18
S41	33	"347"/\$3 and (memory or RAM or ROM or RFID) same (nozzle\$1 or ejector or orifice) with (missing or malfunction\$3 or inactive or inactivity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/22 14:39

## EAST Search History

S42	27	"347"/\$3 and (memory or RAM or ROM or RFID) same (nozzle\$1 or ejector or orifice) with (missing or malfunction\$3 or inactive or inactivity) not bruch.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/22 14:41
S43	27	("347"/\$3 and (memory or RAM or ROM or RFID) same (nozzle\$1 or ejector or orifice) with (missing or malfunction\$3 or inactive or inactivity)) not bruch.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/22 14:43
S44	4	("347"/\$3 and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) same (nozzle\$1 or ejector or orifice) with (missing or malfunction\$3 or inactive or inactivity)) not bruch.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/22 14:43
S45	1094	("347"/\$3 and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) same (nozzle\$1 or ejector or orifice)) not bruch.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/22 14:44
S46	508	("347"/\$3 and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) same (nozzle\$1 or ejector or orifice)) and ((nozzle\$1 or ejector or orifice) same (location or malfunction\$3 or status))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 14:48
S47	371	("347"/\$3 and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) with (nozzle\$1 or ejector or orifice)) and ((nozzle\$1 or ejector or orifice) same (location or malfunction\$3 or status))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:03
S48	2	"5610635".pn. and memory same (orifice or ejector or nozzle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 14:59
S49	81	("347"/\$3 and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) with (nozzle\$1 or ejector or orifice) same (location or malfunction\$3 or status))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:14

## EAST Search History

S50	70	("347"/\$3 and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) with (nozzle\$1 or ejector or orifice) same (location or malfunction\$3 or status)) and (memory or ram or rom or rfid) with (status or location or mal\$function\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:22
S51	39	((347/85 or 347/86 or 347/19) and (memory or RAM or ROM or RFID) with (cartridge or carrier or housing or head or print\$head) with (nozzle\$1 or ejector or orifice) same (location or malfunction\$3 or status)) and (memory or ram or rom or rfid) with (status or location or mal\$function\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 15:25
S52	17	"5615312"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/05 14:45
S53	2	"5615312".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/10/23 12:08
S54	2383	"347"/\$3 and (print\$head or head or cartridge or array) same (memory or RAM or ROM or eeprom or eprom) same (nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:09
S55	1018	"347"/\$3 and (print\$head or head or cartridge or array) with (memory or RAM or ROM or eeprom or eprom) with (nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:14
S56	978	"347"/\$3 and (print\$head or head or cartridge) with (memory or RAM or ROM or eeprom or eprom) with (nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:31



## EAST Search History

S57	687	"347"/\$3 and (print\$head or head or cartridge) with (memory or RAM or ROM or eeprom or eprom) with (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:38
S58	250	"347"/\$3 and (print\$head or head or cartridge) with (memory or RAM or ROM or eeprom or eprom) near6 (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:38
S59	433	"347"/\$3 and (print\$head or head or cartridge) with (memory or RAM or ROM or eeprom or eprom) near10 (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:38
S60	350	"347"/\$3 and (print\$head or head or cartridge) near10(memory or RAM or ROM or eeprom or eprom) near10 (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:52
S61	1	"347"/\$3 and (print\$head or head or cartridge) near3 (on or located) near4 (memory or RAM or ROM or eeprom or eprom) near10 (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:46
S62	1	"347"/\$3 and (print\$head or head or cartridge) near3 (on or locat\$3) near4 (memory or RAM or ROM or eeprom or eprom) near10 (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:46
S63	1	"347"/\$3 and (print\$head or head or cartridge) near3 ("on" or locat\$3) near4 (memory or RAM or ROM or eeprom or eprom) near10 (nozzle or ejector or orifice) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:48
S64	2	"20010007458"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 13:08

## EAST Search History

S65	71	"6227643"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 12:56
S66	9	"6227643" and (memory or ram or rom or eeprom or eprom) with (nozzle or orifice or ejector) with (cartridge or print\$1head or printhead or head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 13:01
S67	2	"20010007458" and memory same ("78" or nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 13:15
S68	1	"20010007458" and (("78" or memory) same nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/23 13:21
S69	1	"20010007458" and (("78" or memory) same (nozzle or ejector or orifice))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/26 14:33
S70	2	"20010007458".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 12:29
S71	5207	(347/84,85,86).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:38
S72	1	S71 and (memory or ram or rom or eeprom or eprom or prom or rfid) near (nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/03 12:41

## EAST Search History

S73	4	S71 and (memory or ram or rom or eeprom or eprom or prom or rfid) near3 (nozzle or ejector or orifice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/03 12:51
S74	14	S71 and (memory or ram or rom or eeprom or eprom or prom or rfid) near3 (nozzle or ejector or orifice or drop\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/03 14:29
S75	467	"347"/\$3 and (memory or ram or rom or eeprom or eprom or prom or rfid) near3 (nozzle or ejector or orifice or drop\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/03 14:53
S76	28	"347"/\$3 and (cartridge or casing or housing) near4 (memory or ram or rom or eeprom or eprom or prom or rfid) near3 (nozzle or ejector or orifice or drop\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/03 15:02
S77	1	"6435676".pn. and ("48" same "49")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/10 09:18